

# STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR. SECRETARY

# **ADDENDUM 1**

DMV IREDELL COUNTY REGIONAL CDL TESTING FACILITY STATESVILLE, NC SCO ID# 11-09038-01A JANUARY 13, 2012

# PLEASE NOTE RECEIPT OF THIS ADDENDUM (# 1) ON YOUR BID

SEALED BIDS WILL BE RECEIVED UNTIL10:30 AM, THURSDAY, JANUARY 19, 2012, DIVISION 12, DISTRICT 2 RESIDENT ENGINEERS CONFERENCE ROOM, 124 Prison Camp Road, Statesville, NC 28625 (Division Office phone number: 704-876-3947)

ITEM 1: Minutes of the Pre-bid meeting (sign-in sheet attached):

- a. The project Design team and owners representative was introduced: Craig Miller, Facility Construction Engineer (NCDOT), Ed Edens, Mike Littlefield, and Alex Nice (URS site/civil)
- b. The scope of work was reviewed: (drainage, stormwater control, concrete paving, and site preparation)
- c. The contractor is not to use the NCDOT materials and testing lab next to the site for staging or access.
- d. All site permits have been acquired. If there are any tap fees, they will be handled by the Owner.
- e. All documents, including the list of General Contractors that attended the mandatory pre-bid, are, or will be posted on the website: (no documents will be distributed)

# http://www.ncdot.gov/doh/operations/division12/bids/

- f. The bids will be submitted in paper format (the "traditional" format), as per the Notice to Bidders and Addendum 1. See the note above for the address.
- g. All questions are to be submitted in the form of an RFI, via e-mail, to the Facilities Construction Engineer (cmiller@ncdot.gov); the Facility Construction Engineer has gotten, and will get, the response of the appropriate designer.
- h. The geotechnical report and septic permit is in the Project Manual.
- i. The duration of the Contract is 180 days
- j. Liquidated Damages are \$500 per day.
- k. Inspections: this project is overseen by the State Construction Office. There is no building permit required from the county or city; the party responsible for inspections will be clarified in the first addendum
- I. NCDOT prequalification is not required. Bidders must have a North Carolina GC unlimited license. North Carolina GC License Heavy Highway is acceptable.
- m. The ADA ramp which will access the modular unit is not included in the contract. The concrete wheel chair ramp adjacent to the handicapped parking is included in the contract.
- n. The modular unit will rest on compacted soil, which is included in the contract. The foundation or leveling pads for the modular unit are not included in the contract.
- o. Duke Energy will provide all power connections to the modular unit and power connections are not included in the contract.
- p. The contractor will be responsible for the installation of the septic system and the installer of the modular unit will make the final connections to the septic system.
- q. The contractor will be responsible for the installation of a water line to connect to the water meter at the right-of-way installed by Iredell Water.
- r. Minority Participation requirements: As per the Project Manual, the minority participation goal is 10% (HUB)

# ITEM 2: Clarifications and answers provided by the Design team:

# **General Comments**

a. Minority Participation requirements: As per the Project Manual, the minority participation goal is 10% HUB, (not DBE) Please contact NCDOT's HUB Coordinator Bonnie Tripp Simmons 919-508-1796 (<u>bsimmons@ncdot.gov</u>) for assistance. You can also utilize the following website to find HUB certified contractors and subcontractors.

# https://www.ips.state.nc.us/IPS/Vendor/SearchVendor.aspx

- b. The Bid package: THE FOLLOWING FOUR ITEMS MUST BE IN YOUR SEALED ENVELOPE, FULLY EXECUTED:
  - 1. FORM OF PROPOSAL
  - 2. 5% BID BOND OR CERTIFIED CHECK
  - 3. AFFIDAVIT A **OR** B (NOT BOTH) (IGNORE "DO NOT SUBMIT WITH THE BID" THAT IS ON TOP OF DOCUMENT
  - 4. IDENTIFICATION OF MINORITY BUSINESS PARTICIPATION (IGNORE "DO NOT SUBMTI WITH THE BID" THAT IS ON TOP OF DOCUMENT

If you mail or UPS/FedEx your bid, you must put it in a sealed INNER envelope inside of the mailing/shipping envelope, with the required information written on the inner envelope, and it must arrive by the bid opening time.

- c. ALL ADDENDA MUST BE NOTED ON THE FORM OF PROPOSAL THEY WILL NOT BE ISSUED; THEY WILL BE POSTED ON THE WEBSITE. CONTINUE TO CHECK THE WEBSITE THIS WEEK; IF THERE ARE ANY MINOR ISSUES THAT ARISE WE WILL POST UNTIL THE END OF THE WEEK.
- d. This is one Single Prime bid for all type of work. There are no Alternates. There are four Unit Prices, that must include labor and material.
- e. There must be a full time superintendent on site.
- f. Form of proposal....
  - a. Only list subcontractors you are using otherwise write N/A
- g. There is no electrical service to the project site as part of this work. Providing temporary service to the site, if required, is the contractor's responsibility.
- h. Concrete compaction and concrete testing services will be provided by the Owners independent entity.
- i. The start date will be the notice to proceed. The duration will be 150 days, and the liquidated damages are \$250 per day.
- j. The backflow preventer will be provided and installed by the Owner.
- k. The General Contractor is responsible for the Performance Bond, Payment Bond, and required insurance, for the total project.
- I. NCDOT Roadway Provisions and Roadside Environmental Project Special Provisions applicable to this project can be found at the links provided below. The following items are listed for the contractors benefit but are not necessarily inclusive of all roadway provisions and special provisions required for this project. All statements of "Measurement and Payment" are not applicable to this project.

Clean Water Diversion; Coir Fiber Baffle; Coir Fiber Mat; Coir Fiber Wattles with Polyacrylamide; Gravel Construction Entrance; Minimize Removal of Vegetation; Permanent Soil Reinforcement Mat; Response for Erosion Control; Safety Fence; Seed Mix Table; Seed Quality Specification; Seed Mix West; Skimmer Basin with Baffles; Stockpile and Access Road; Temporary Diversion; Waste Areas and Borrow Sources; Wattle

# http://www.ncdot.org/doh/operations/dp\_chief\_eng/roadside/soil\_water/special\_provisions/

Clearing and Grubbing – Method II; Embankments; Fine Grading Subgrade, Shoulders and Ditches; Aggregate Base Course; Tying Proposed Concrete Pavement to Proposed Asphalt Pavement; Concrete Pavements and Shoulders; Chain Link Fencing with Barbed Wire on Extension Arms; Concrete Sidewalks; Driveways and Curb Ramps; Steel U-Channel Posts and Steel Square Tube Supports; Portland Cement Concrete (Alkali-Silica Reaction); Engineering Fabrics; Pavement Marking Lines; Excavating, Trenching, Pipe Laying, and Backfilling for Utilities.

http://ncdot.gov/doh/preconstruct/ps/contracts/sp/2006sp/2006sp.html

Q1: What entity would we be working with for inspections?

NCDOT, (owners rep) URS (designer), State Construction Office Monitor, State Electrical inspector (if applicable)

Q2. The "Identification of Minority Business" and "Affidavit A" included in the specifications state (at the top of the forms) that we are NOT to submit these forms with our bid, however it is stated as a requirement to submit on the bid form. Please advise the requirement for these forms and any other minority participation requirements and goals.

"THE IDENTIFICATION OF MINORITY BUSINESS" and "AFFIDAVIT A" or "AFFIDAVIT B" are required to be submitted with your bid. (IGNORE WHRE IT SAYS THAT THEY ARE NOT TO BE SUBMITTED WITH THE BID). Affidavits C or D will only be submitted by the low bidder, after the bid opening.

Q3. Have the grading and/or building permit fees been paid for by owner or do they not apply on this State project?

Grading / Building permit fees do not apply to this project. All tap fees are paid for by owner.

Q3a. If we are to carry these costs in our bid, can an allowance be determined? See answer above.

Q3b. Secondly, what entity would we be working with for inspections?

NCDOT, (owners rep) URS (designer), State Construction Office Monitor, State Electrical inspector (if applicable)

Q4. Are there any electrical requirements for this project or is the overhead line future work? Duke Energy will provide all power connections to the modular unit and power connections are not included in the contract.

Q5. Is the subgrade water line part of this contract and is a back-flow preventer required? The contractor will be responsible for the installation of a water line to connect to the water meter at the right-of-way installed by Iredell Water. A backflow preventer will be required and is not included in the contract. The backflow preventer will be covered by the owner.

Q6. Is a temp construction fence required around the project site?

No, a temporary construction fence with gate is not required. The contractor is responsible to take care of their own security. Tree protection fence at the limit of disturbance is the responsibility of the contractor.

Q7. Can you provide concrete specifications for the modular concrete panels, the entrance drive, and the bldg footings?

- a. There are no modular concrete panels on the project. The CDL lot pad is poured in place concrete.
- b. The concrete mix for all poured in place concrete is in the specifications
- c. Use an approved NCDOT Class AA mix for all concrete. Submit the proposed mix to the Engineer for approval.

Q8. Plans mention sod in site general notes, what are the locations and specifications? See sheet 5, "Stormwater Control Plan" for location of sod. Refer to NCDOT Std. Spec. 1664 and this addendum for details.

Q9. Are highway licenses required to bid this project?

NCDOT prequalification is not required. Bidders must have a North Carolina GC unlimited license. North Carolina GC License Heavy Highway is acceptable.

Q10. Do you have an estimated value/project budget?

It will not be provided

Q11. Could you verify that the 7" thick, 15' SQ sections of concrete pad have 1 or 2 mats of #4 bar as shown on the site details sheet, (#4@12" OC @ Mid Slab Each Way Top and Bottom). I am assuming that each way top and bottom is the top and bottom bar spacing on just 1 mat? Only one mat is shown at center of slab and steel runs in two directions.

Q12. Also, I understand you are going to clarify the lime requirements for the soil stabilization in the addendum?

See NCDOT Standard Specification 501-2 for Lime Treated Soils

Q13. Can 1' high normal barb arm be used on top of chain link fence to replace the 2' high barb arm?

Provide extension arms constructed to locate the top most strand of barbed wire approximately 12 inches above and approximately 12 inches out from the top rail. Space all strands of barbed wire at an approximately equal distance from each other. Make provisions for supporting the top rail. The arm shall make a 45 degree angle with the post, and be an item of standard manufacture. Have samples of extension arms to be used on the project approved prior to their installation.

Q14. Detail 6/11A indicates to use 1-1/4" diameter dowels 18" long and it also references NCDOT 700.01. NCDOT 700.01 states to use 1" diameter dowels 14" long for the transverse contraction joints for 8" or less slabs. Can you clarify?

Follow NCDOT Roadway Standard Drawing700.01 – Use 1" diameter dowels 14" long in place of 1-1/4" diameter 18" long dowels for details (2/11) (1/11A) (5/11A) (6/11A) maintain dowel spacing as shown on plans. Saw cut 2" depth for all control joints.

Q15. In regards to the driveway detail 2/11A states to tie the longitudinal joint and transverse joint. I believe it is the intent to tie the longitudinal joint with #4 x 30" long deformed bars @ 2'-6" on center and dowel the transverse joint with 1" x 14" round smooth epoxy coated dowels for load transfer. Can you clarify?

Tie the longitudinal joint with  $\#4 \times 30$ " long deformed bars @ 2'-6" on center and dowel the transverse joint with 1" x 14" round smooth dowels (epoxy coating not required) Saw cut 2" depth for all control joints.

Q16. What is the transverse construction joint detail supposed to be? Detail 6/11A states to use 18" long x 1 ¼" dowels spaced at 12" on center but detail shows #8 bar (dowels??) 14" long x 12" on center? Per my previous e-mail it would be much simpler to use PNA Diamond Plate Dowels. Follow NCDOT Roadway Standard Drawing700.01 – Use 1" diameter dowels 14" long in place of 1-1/4" diameter 18" long dowels for details (2/11) (1/11A) (5/11A) (6/11A) maintain dowel spacing as shown on plans. Saw cut 2" depth for all control joints.

Q17. Is a bond breaker required between the curb and paving?

See NCDOT Standard Specifications for Roads and Structures 846-3

Q18. Can we install the construction joints as we see necessary? Obviously aggregate interlock is better for load transfer, and we would like to pour monolithic as much as possible.

Placement of control joints must follow spacing on plan sheet 4 Site Layout. Placement of construction joints are at the discretion of the contractor. Follow NCDOT Standard Specifications for Roads and Structures and NCDOT Roadway Standard Drawings for the treatment of construction joints and emergency joints. The use of the term "panels" and "slabs" are interchangeable. The 15'x15' slabs are not precast and are pour in place.

Q18. Is the use of PNA Diamond Plate Dowels acceptable for the construction joints in lieu of round dowels?

No

Q19. ACI 330R-08 recommends an isolation joint between the 32' driveway and paving. Is this required and if so what size isolation joint is required?

Yes, 1"

Q20. Is the reinforcing for the panels to be epoxy coated?

Epoxy coating is not required on any reinforcing or dowels

Q21. What type of chairs is required for the reinforced panels and do they have to be epoxy coated?

Continuous high chair

Q22. NCDOT standard specifications require a 650 flex mix. Can we delete all references to flexural strength and utilize a 4,500 psi compressive strength mix/testing requirements? *No, see NCDOT Standard Specifications for Road and Structures 1000-3 for requirements.* Q23. Can compressive strength testing be used in lieu of 6" x 6" x 20" flexural strength beam testing?

The Owner will perform all QA testing of concrete. Concrete testing is not included in the contractors responsibilities.

Q24. NCDOT requires a field lab. Is this necessary for curing?

No

Q25. Is surface testing required per NCDOT 710-7 (Rainhart Profilograph)?

The Owner will perform all concrete QA testing.

Q26. Per NCDOT Section 700-5 (A), is paving to be done with a slip form paver? The slump would have to be 1" - 2" for "side form concrete" and  $\frac{1}{2}$ " - 1  $\frac{1}{2}$ " for slip form concrete. This slump is too low for slip form paving and if it is formed there would be construction joints for all of the lanes. NCDOT Standard Specification for Roads and Structures 700-5 (C) allows for fixed form method. Q27. Per NCDOT Section 700-5 (C), are metal forms required?

Yes

Q28. Per NCDOT 700.01 the minimum saw cut depth is to be 3". Based on the pavement thickness this is too deep. Can we use early entry saws to reduce this depth? All joints shall be saw cut to 2" depth

Q29. Can the slump be adjusted to a 4" +/- 1" for the use of a laser screed? This would eliminate construction joints to be used throughout the field of paving (formed lanes) because slip forming is not really feasible.

Placement of control joints must follow spacing on plan sheet 4 Site Layout. Placement of construction joints are at the discretion of the contractor. Follow NCDOT Standard Specifications for Roads and Structures and NCDOT Roadway Standard Drawings for the treatment of construction joints and emergency joints. The use of the term "panels" and "slabs" are interchangeable. The 15'x15' slabs are not precast and are pour in place. Use of a laser screed is permissible. Slump must meet requirements of section 1000-3 (C) of the NCDOT Standard Specifications for Roads and Structures.

Q30. Is a rough broom finish acceptable rather than a tined surface?

Q31. Detail 1/11A indicates #4 @ 12" o.c.e.w. at mid depth (top and bottom). Is this indicating two mats of steel?

Only one mat is shown at center of slab and steel runs in two directions.

Q32. Are ACI 330.1-03 Specification for Unreinforced Concrete Parking Lots and ACI 330 Guide for the Design and Construction of Concrete Parking Lots acceptable publications to follow when constructing the exterior concrete portions of this project?

Q33. Per NCDOT Section 700-12 (A), are all joints to be sealed with silicone sealant? If so is Dow 890sl acceptable?

See NCDOT Standard Specifications for Roads and Structures 1028-1

Q34. Per NCDOT Section 700-15 (F), are core samples required to determine thickness of concrete placed?

No. Concrete QA testing will be performed by the Owner.

# ITEM 4: Clarification provided by the Design Team:

# Sheet 1A

- a. Amend side roads note Replace "This work will be paid for at the contract unit price for the particular items." with "This work is incidental to the project and will be paid for in the lump sum contract price."
- b. Amend sod note with the following SOD SHALL BE A WEED AND PEST FREE ZOYSIA GRASS OR OTHER SPECIES AS APPROVED BY NCDOT. SOD SHOULD HAVE A LUSH APPEARANCE, BE DENSE, HAVE A UNIFORM TEXTURE, AND BE BRIGHT IN COLOR. TO PREVENT CLOGGING OF THE MEDIA FILTER, SOD PLACED IN BIORETENTION BASIN SHOULD BE OBTAINED FROM A SUPPLIER THAT GROWS IN NON-CLAY SOILS. TOPSOIL SHOULD NOT BE PLACED ON THE ENGINEERED SOIL MEDIA TO FACILITATE SOD ESTABLISHMENT AS INDICATED ON PLANS, UNLESS TOPSOIL MEETS THE PERMEABILITY REQUIREMENTS OF THE ENGINEERED SOIL MEDIA PROVIDED IN THE SPECIFICATIONS; CLAY LOAM OR SILT LOAM TOPSOIL SHOULD BE AVOIDED. NO FERITLIZER SHALL BE USED WITHIN THE BIORETENTION BASIN. REFER TO SECTION 1664 OF THE NDOT STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SODDING.

WATER SOD IMMEDIATEDLY AFTER PLACEMENT SO THAT SOIL IS MOIST TO A MINIMUM OF 1 INCH DEPTH BELOW SOD. WATER SOD TO MAINTAIN 1 INCH OF MOIST SOIL UNDERNEATH THE SOD, THREE TIMES PER WEEK FOR THREE WEEKS AFTER PLANTING HAS BEEN COMPLETED OR UNITL SOD HAS BEEN ESTABLISHED AS CONFIRMED BY NCDOT. WATER SOD DURING PROLONGED DRY PERIODS ONCE SOD IS ESTABLISHED.

# Sheet 4

a. Revise Detail 2/11 - Replace "SLABS" with "SLAB"

#### Sheet 5

a. Revise "Limit of Sod Placement" note to "Limit of Sod Placement. Place sod on side slopes and top of filter."

# Sheet 7

a. Note 2.4 – Revise note to remove "centipede" as the preferred sod

#### Sheet 10

a. Revise note "Proposed Service Pole" to read "Proposed Service Pole By Others" Sheet 11

- a. Revise pavement schedule to specify Class AA Mix Design for A1 and A2
- b. Revise detail 2/11 Replace 18" (1-1/4" diameter) dowels with 14" (1" diameter) dowels
- c. Revise detail 3/11 Revise 2' extension arm to 1' extension arm.

#### Sheet 11A

- a. Revise detail (1/11A), (3/11A) (6/11A) Replace 18" (1-1/4" diameter) dowels with 14" (1" diameter) dowels
- b. Revise detail (1/11A) Removed the phrase "top and bottom" from note Sheet 12
- a. Revise detail (6/12) Note should read "Min 1' Compacted Class I Select Material Around Perimeter of Structure".
- b. Revise detail (7/12) Note should read "Use Class I Select Material Per Section 1016 of the NCDOT Standard Specifications for Road and Structures and Construct Embankment Per Section 235 of the NCDOT Standard Specifications for Road and Structures"

# Sheet 13

- a. Revise detail 14 Replace "Filter Media Layer" with "Engineered Soil Media (ESM) Layer"
- b. Revise detail 15 Replace "Backfill Select Material" with "Class I Select Material"
- c. Revise detail 15 Revise note 3 to read "Place and Compact Fill Around Pipe Per Section 235 and 300 of the NCDOT Standard Specifications"

# Attachments to Addendum 1:

• Sign in sheet from mandatory Pre-bid meeting

End of Addendum 1

# Iredell County DMV CDL Testing Facility Pre-bid SIGN-IN SHEET SCO ID#: 11-09038-01A

SCO ID#: 11-09038-01A LOCATION: 124 Prison Camp Rd., Statesville, NC 28625

DATE: January 6, 2012 TIME: 10:30 AM

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